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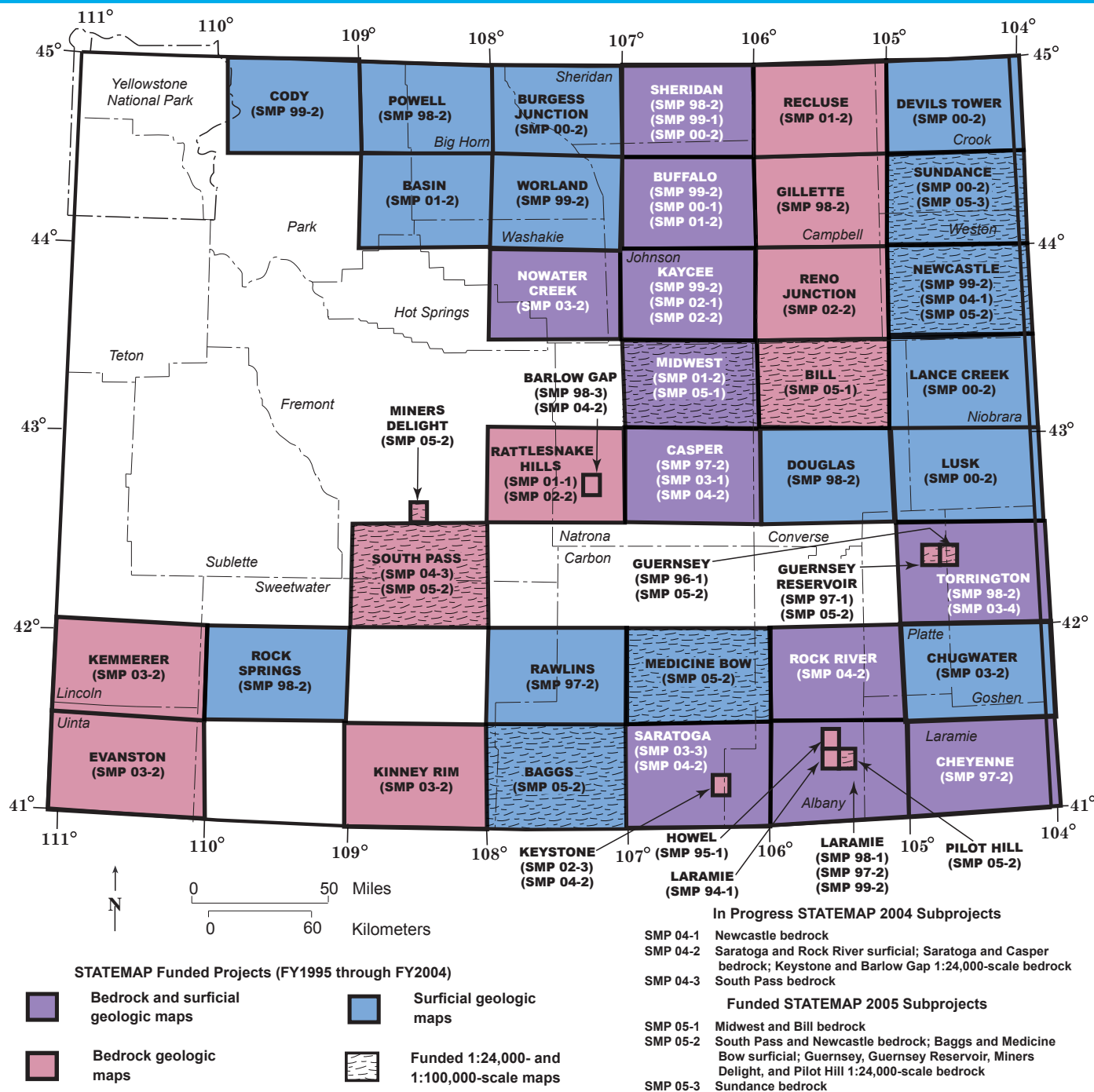


Wyoming State Geological Survey

March 10, 2005

National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping



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Table 1. Summary of the STATEMAP-funded geologic mapping program in Wyoming.

Fiscal Year	Project description and map scale	State dollars	Federal dollars	Total project dollars
1995	Geologic map of the Laramie Quadrangle, 1:24,000-scale STATEMAP94	\$12,000	\$12,000	\$24,000
1996	Geologic map of the Howell Quadrangle, 1:24,000-scale STATEMAP95	\$10,000	\$10,000	\$20,000
1997	Geologic map of the Guernsey Quadrangle, 1:24,000-scale STATEMAP96	\$8,499	\$8,499	\$16,998
1998	1-Geologic map of the Guernsey Reservoir Quadrangle, 1:24,000-scale STATEMAP97	\$14,000	\$14,000	\$28,000
	2-Digital geologic map of the Cheyenne Quadrangle and digital surficial geologic maps of the Casper, Cheyenne, Laramie, and Rawlins Quadrangles, 1:100,000-scale STATEMAP97	\$17,000	\$17,000	\$34,000
Total 1998 Funds		\$31,000	\$31,000	\$62,000
1999	1-Geologic map of the Laramie Quadrangle, 1:100,000-scale STATEMAP98	\$18,500	\$18,500	\$37,000
	2-Digital geologic map of the Gillette Quadrangle and surficial geologic maps of the Douglas, Powell, Rock Springs, Sheridan, and Torrington Quadrangles, 1:100,000-scale STATEMAP98	\$20,000	\$20,000	\$40,000
	3-Geologic map of the Barlow Gap Quadrangle, 1:24,000-scale STATEMAP98	\$18,650	\$18,650	\$37,300
Total 1999 Funds		\$57,150	\$57,150	\$114,300
2000	1-Geologic map of the Sheridan Quadrangle, 1:100,000-scale STATEMAP99	\$19,500	\$19,500	\$39,000
	2-Digital geologic map of the Laramie Quadrangle and digital surficial geologic maps of the Buffalo, Cody, Newcastle, Kaycee, and Worland Quadrangles, 1:100,000-scale STATEMAP99	\$20,000	\$20,000	\$40,000
Total 2000 Funds		\$39,500	\$39,500	\$79,000
2001	1-Geologic map of the Buffalo Quadrangle, 1:100,000-scale STATEMAP00	\$20,500	\$20,500	\$41,000
	2-Digital geologic map of the Sheridan Quadrangle and digital surficial geologic maps of the Burgess Junction, Devils Tower, Lance Creek, Lusk, and Sundance Quadrangles, 1:100,000-scale STATEMAP00	\$24,500	\$24,500	\$49,000
Total 2001 Funds		\$45,000	\$45,000	\$90,000
2002	1-Geologic map of the Rattlesnake Hills Quadrangle 1:100,000-scale STATEMAP01	\$24,133	\$24,133	\$48,266
	2-Digital geologic maps of the Buffalo and Recluse Quadrangles and digital surficial geologic maps of the Midwest and Basin Quadrangles 1:100,000-scale STATEMAP01	\$24,796	\$24,796	\$49,592
	3-Entering map data in National Geologic Map Database STATEMAP01	\$6,500	\$6,500	\$13,000
Total 2002 Funds		\$55,429	\$55,429	\$110,858
2003	1-Geologic map of the Kaycee Quadrangle 1:100,000-scale STATEMAP02	\$23,500	\$23,500	\$47,000
	2-Digital geologic maps of the Kaycee, Reno Junction, and Rattlesnake Hills Quadrangles 1:100,000-scale STATEMAP02	\$18,437	\$18,437	\$36,874
	3-Geologic map of the Keystone Quadrangle 1:24,000-scale STATEMAP02	\$28,976	\$28,976	\$57,952
Total 2003 Funds		\$70,913	\$70,913	\$141,826
2004	1-Geologic map of the Casper Quadrangle 1:100,000-scale STATEMAP03	\$21,889	\$21,889	\$43,778
	2-Digital geologic maps of the Kinney Rim, Evanson, Kemmerer, and Nowater Creek quadrangles; digital surficial geologic maps of the Nowater Creek and Chugwater quadrangles 1:100,000-scale STATEMAP03	\$16,745	\$16,745	\$33,490
	3-Geologic map of the Saratoga Quadrangle 1:100,000-scale STATEMAP03	\$27,532	\$27,532	\$55,064
	4-Geologic map of the Torrington Quadrangle 1:100,000-scale STATEMAP03	\$23,892	\$23,892	\$47,784
Total 2004 Funds		\$90,058	\$90,058	\$180,116
2005	1-Geologic map of the Newcastle Quadrangle 1:100,000-scale STATEMAP04-in progress	\$22,803	\$22,803	\$45,606
	2-Digital geologic maps of the Casper and Saratoga bedrock and Saratoga and Rock River surficial Quadrangles 1:100,000-scale; Keystone and Barlow Gap Quadrangles 1:24,000-scale STATEMAP04-in progress	\$19,295	\$19,295	\$38,590
	3-Geologic map of the South Pass Quadrangle 1:100,000-scale STATEMAP04-in progress	\$27,854	\$27,854	\$55,708
Total 2005 funds		\$69,952	\$69,952	\$139,904
2006	1-Geologic maps of the Midwest and Bill quadrangles 1:100,000-scale STATEMAP05-Funded	\$33,446	\$33,446	\$66,892
	2-Digital geologic maps of the South Pass and Newcastle bedrock and surficial geologic maps of the Baggs and Medicine Bow quadrangles 1:100,000-scale; Guernsey, Guernsey Reservoir, Miners Delight, and Pilot Hill 1:24,000-scale bedrock quadrangles STATEMAP05-Funded	\$26,331	\$26,331	\$52,662
	3-Geologic map of the Sundance Quadrangle 1:100,000-scale STATEMAP05-Funded	\$35,027	\$35,027	\$70,054
Total 2006 funds		\$94,804	\$94,804	\$189,608
TOTALS		\$584,305	\$584,305	\$1,168,610

The STATEMAP Program, part of the National Cooperative Geologic Mapping Program (NCGMP), has significantly expanded and driven the mapping efforts of the Wyoming State Geological Survey (WSGS) over the past ten years. The WSGS completed 49 maps using funding from this program since it began involvement in 1994; and additional 13 maps were completed independent of the program's funding. Eight additional maps are in progress with STATEMAP 2004 funding. Current STATEMAP-supported mapping priorities established by the WSGS in cooperation with Wyoming Geologic Mapping Advisory Committee include: 1) producing geologic maps to support coalbed methane exploration/production activities and associated ground- and surface-water protection needs in the Powder River Basin; 2) mapping the more populated areas of the state to provide assistance to city and county planners in siting and land-use planning, as well as providing information to support water resource protection and development; and 3) mapping to support energy/mineral exploration and development.

STATEMAP STATEMENT OF OUTCOME

The WSGS mapped and digitized the Laramie 100K geologic map as part of STATEMAP 1998 and 1999. This mapping effort was in support of the Laramie Drinking Water Protection Plan that was developed by the City of Laramie Environmental Advisory Committee (EAC) to protect the Casper Formation aquifer recharge area from contamination. In addition, at the request of the EAC, the WSGS will complete efforts with airphoto interpretation and fieldwork to finalize the interpretations and define the structural geology on the Pilot Hill 24K Quadrangle, to be completed and digitized as part of STATEMAP 2005. This map, along with the Laramie 24K (STATEMAP 1994) and 100K quadrangles have been essential to the City of Laramie efforts to refine the Drinking Water Protection Plan.